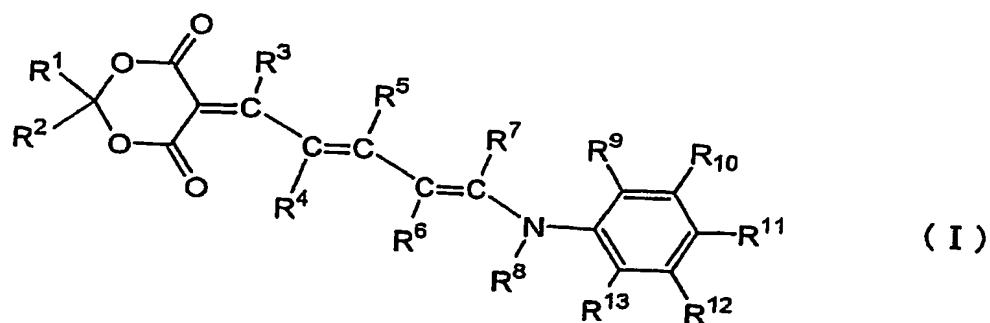


## CLAIMS

1. A compound represented by the following formula

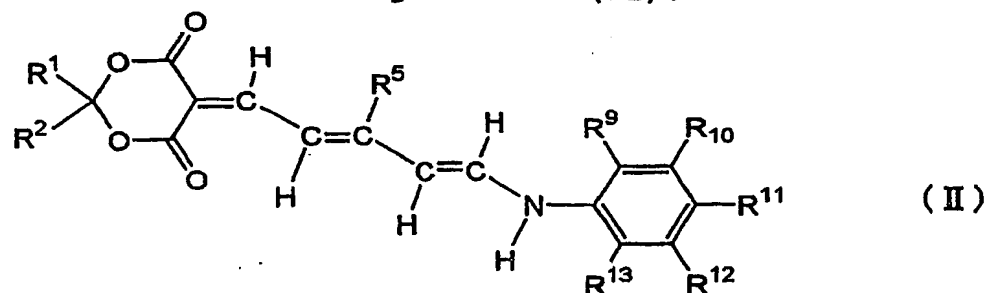
(I):



wherein  $R^1$  and  $R^2$  each independently represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted aryl group having 6 to 10 carbon atoms;  $R^3$ ,  $R^4$ ,  $R^6$ , and  $R^7$  each independently represent a hydrogen atom or a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms;  $R^5$  represents a hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group having 6 to 10 carbon atoms, a substituted or unsubstituted acylamino group having 2 to 10 carbon atoms, or a substituted or unsubstituted heterocyclic group having 1 to 6 carbon atoms;  $R^8$  represents a hydrogen atom or a substituted or unsubstituted acyl group having 2 to 10 carbon atoms; and  $R^9$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{12}$ , and  $R^{13}$  each independently represent a hydrogen atom or a substituent; provided that  $R^1$  and  $R^2$  may be bonded to each other to form a ring.

2. The compound according to claim 1, wherein  $R^9$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{12}$ , and  $R^{13}$  each independently represent a hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a nitro group, a cyano group, a substituted or unsubstituted alkoxy carbonylamino group having 2 to 10 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 10 carbon atoms, or a substituted or unsubstituted alkoxy carbonyl group having 2 to 10 carbon atoms.

3. The compound according to claim 1, which is represented by the following formula (II):



wherein  $R^1$  and  $R^2$  each independently represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted aryl group having 6 to 10 carbon atoms;  $R^5$  represents a hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group having 6 to 10 carbon atoms, a substituted or unsubstituted acylamino group having 2 to 10 carbon atoms, or a substituted or unsubstituted heterocyclic group having

1 to 6 carbon atoms; and  $R^9$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{12}$ , and  $R^{13}$  each independently represent a hydrogen atom, a halogen atom, an alkyl group, a cyano group, a nitro group, a carboxyl group, a substituted or unsubstituted alkoxy group having 1 to 10 carbon atoms, a substituted or unsubstituted aryloxy group having 6 to 10 carbon atoms, a substituted or unsubstituted acylamino group having 2 to 10 carbon atoms, a substituted or unsubstituted aminocarbonylamino group having 2 to 10 carbon atoms, a substituted or unsubstituted alkoxycarbonylamino group having 2 to 10 carbon atoms, a substituted or unsubstituted aryloxycarbonylamino group having 6 to 10 carbon atoms, a substituted or unsubstituted sulfamoyl group having 0 to 10 carbon atoms, a substituted or unsubstituted alkylsulfonyl group having 1 to 10 carbon atoms, a substituted or unsubstituted arylsulfonyl group having 6 to 10 carbon atoms, a substituted or unsubstituted acyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aryloxycarbonyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 10 carbon atoms, or a substituted or unsubstituted carbamoyl group having 1 to 10 carbon atoms; provided that  $R^1$  and  $R^2$  may be bonded to each other to form a ring.

4. The compound according to claim 3, wherein  $R^5$  represents a hydrogen atom, an unsubstituted alkyl group having

1 to 5 carbon atoms, or an unsubstituted aryl group having 6 to 10 carbon atoms.

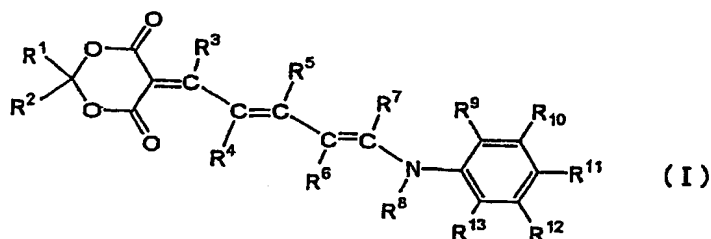
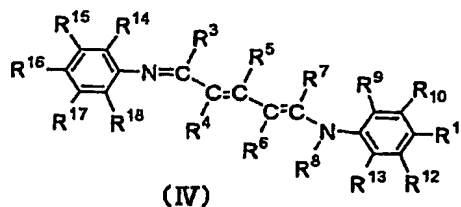
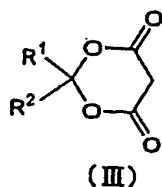
5. The compound according to claim 3, wherein R<sup>5</sup> represents a hydrogen atom.

6. The compound according to claim 3, wherein R<sup>9</sup>, R<sup>10</sup>, R<sup>11</sup>, R<sup>12</sup>, and R<sup>13</sup> each independently represent a hydrogen atom, a halogen atom, a nitro group, or an alkyl group having 1 to 5 carbon atoms which is unsubstituted or is substituted by one or more halogen atoms.

7. The compound according to claim 3, wherein one of R<sup>10</sup>, R<sup>11</sup>, and R<sup>12</sup> represents a hydrogen atom, an alkyl group, a halogen atom, a nitro group, an alkoxy group, an acylamino group, or a carbamoyl group, and R<sup>9</sup> and R<sup>13</sup> each represent a hydrogen atom.

8. The compound according to claim 3, wherein R<sup>9</sup>, R<sup>10</sup>, R<sup>11</sup>, R<sup>12</sup>, and R<sup>13</sup> each represent a hydrogen atom.

9. A process for producing a compound represented by the following formula (I) which comprises reacting a compound represented by the following formula (III) with a compound represented by the following formula (IV):



wherein  $R^1$  and  $R^2$  each independently represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted aryl group having 6 to 10 carbon atoms;  $R^3$ ,  $R^4$ ,  $R^6$ , and  $R^7$  each independently represent a hydrogen atom or a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms;  $R^5$  represents a hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted aryl group having 6 to 10 carbon atoms, a substituted or unsubstituted acylamino group having 2 to 10 carbon atoms, or a substituted or unsubstituted heterocyclic group having 1 to 6 carbon atoms;  $R^8$  represents a hydrogen atom or a substituted or unsubstituted acyl group having 2 to 10 carbon atoms; and  $R^9$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{12}$ ,  $R^{13}$ ,  $R^{14}$ ,  $R^{15}$ ,  $R^{16}$ ,  $R^{17}$ , and  $R^{18}$  each independently represent a hydrogen atom

or a substituent; provided that  $R^1$  and  $R^2$  may be bonded to each other to form a ring.

10. The process according to claim 9, wherein the reacting is made at a temperature of  $-20^{\circ}\text{C}$  to  $200^{\circ}\text{C}$  for 5 minutes to 10 hours.